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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/623,401	10/30/2000	Jeffrey Steinhauer	UDM	4834

7590 02/12/2004

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EXAMINER

BRINICH, STEPHEN M

ART UNIT PAPER NUMBER

2624

DATE MAILED: 02/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.



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EXAMINER

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Commissioner for Patents

Office Action Summary

Application No.

09/623,401

Applicant(s)

STEINHAEUER, JEFFREY

Examiner

Stephen M Brinich

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2624

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☐ Claim(s) 1-9 and 11-26 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☐ Claim(s) 1 and 14 is/are rejected.
- 7) ☐ Claim(s) 2-9, 11-13 and 15-26 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>6</u> . | 6) <input type="checkbox"/> Other: ____. |

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1, 11/1, 13/1, 14, 25/14, & 26/14 rejected under 35 U.S.C. 102(e) as being anticipated by Dalal et al.

Re claims 1, 13/1, 14, & 26/14, Dalal et al. discloses (Figure 1; column 7, line 60 - column 8, line 9) a process for printing an image with a set of colorants including cyan (C), magenta (M), yellow (Y), and black (B) and also including other colorants, one of which (blue (B)) has a hue angle between that of cyan and magenta. A set of angled half-tone screens is assigned to these colorants.

Re claims 13/1 & 25/14, Dalal et al. discloses (column 8, line 1) the use of an orange (O) colorant.

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Allowable Subject Matter

3. Claims 2-12 & 15-25 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Re claims 2-3 & 15-16, (and dependent claims 4-7, 8-9/2-7, 10-13/2-7, 17-20, & 21-26/15-20) Dalal et al. teaches the assignment of one-third (rather than one-half) of the non-black colors to each of the screen angles.

Sets of colors are assigned three different screen angles in complementary color pairs, thereby assigning half of them to each screen in such a way that colors of adjacent screen angles (which are not complementary colors) are assigned to different screen angles. This insures that the two colors assigned to each screen angle are never in use simultaneously. This teaching contraindicates a modification to assign half of the colors to one screen angle, as such a modification would place at least two colors that could be used simultaneously on the same screen angle.

Re claims 8/1, 9/1, 10/1, 21/14, 22/14, & 23/14, Dalal et al. discloses blue (which is within the CMYK gamut) as the colorant between cyan and magenta.

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Re claim 12/1, Dalal et al. assigns cyan and magenta to different screen angles. A modification to assign them to the same screen angle is contraindicated by Dalal et al's arrangement of avoiding the assignment to the same screen angle of colors that could be in simultaneous use.


Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen M. Brinich at 703-305-4390. The examiner can normally be reached on weekdays 7:00-4:30, alternate Fridays off.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Tech Center 2600 Customer Service center at 703-306-0377.

If attempts to contact the examiner and the Customer Service Center are unsuccessful, supervisor David Moore can be contacted at 703-308-7452.

Faxes pertaining to this application should be directed to the Tech Center 2600 official fax number, which is 703-872-9306.


Stephen M Brinich
Examiner
Art Unit 2624

smb
February 9, 2004